

# INTERNATIONAL SEARCH REPORT

PCT 03/00030

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 B21D22/14

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 B21D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 23 27 664 A (STROBEL CHRISTIAN) 19 December 1974 (1974-12-19) the whole document	1-17
X	DE 19 64 401 A (MESSERSCHMITT BOELKOW BLOHM) 12 August 1971 (1971-08-12) the whole document	1-17
X	US 5 428 980 A (IIDAKA TSUGUO) 4 July 1995 (1995-07-04) the whole document	1-17
X	DE 34 23 223 C (MANNESMANN AG) 6 February 1986 (1986-02-06) the whole document	1-4, 12-14, 16
	-/-	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents:

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- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

8 April 2003

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23/04/2003

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 009, no. 057 (M-363), 13 March 1985 (1985-03-13) & JP 59 193724 A (MITSUBISHI JUKOGYO KK), 2 November 1984 (1984-11-02) abstract	1,2,4,7, 12,13,16
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